

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002	
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604740F Integrated Command & Control Applications					
COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	7,664	5,783	226	244	263	266	272	Continuing	TBD
2523 Product Lines	213	224	226	244	263	266	272	Continuing	TBD
2524 Reuse and Component Support	7,451	5,559	0	0	0	0	0	0	13,010
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0
<p>(U) <u>A. Mission Description</u></p> <p>The goal of the IC2A Program is to reduce the development time, costs, and risks associated with the acquisition and development of an enterprise oriented C2 capability by defining a reference architecture to enhance a common application use and reuse. Project 2523 minimizes development cost and time by defining a C2 architecture approach, supporting Defense Information Infrastructure Common Operating Environment (DII COE) acceptance testing to ensure compliance and interoperability, and providing tested, reusable software components from mature programs. The use of common product line designs during development based on a C2 reference architecture can improve software quality, interoperability and reliability while reducing fielding times and overall life cycle costs. Project 2524, Reuse and Component Support (RCS) identifies, tests, and provides reusable software components and products to the IC2A program. The RCS project developed a software reuse strategy for the DoD; and is developing a National Product Line Asset Center (NPLACE), a Congressional special interest item, to evaluate and analyze enterprise C2 system components based on primarily commercial off-the-shelf (COTS) products. The IC2A program has determined that over 80% of the functionality of any command center software is common to all command centers. For programs using product line concepts based on a C2 reference architecture.</p> <p>(U) <u>B. Budget Activity Justification</u></p> <p>Program is in Budget Activity 5 - Engineering and Manufacturing Development due to the nature of the effort.</p>									

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DATE

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BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604740F Integrated Command & Control
Applications(U) C. Program Change Summary (\$ in Thousands)

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
(U) Previous President's Budget	213	224	243	TBD
(U) Appropriated Value	7,664	5,824		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions		-41		
b. Small Business Innovative Research				
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram				
e. Rescissions				
(U) Adjustments to Budget Years Since FY 2002 PBR			-17	TBD
(U) Current Budget Submit/FY 2003 PBR	7,664	5,783	226	TBD

(U) Significant Program Changes:

Congress added \$7.8 million in FY2001 to BPAC 652524, Reuse and Component Support.

Congress added \$5.6 million in FY2002 to BPAC 652524 for ASSET, NPLACE, and AF Product Line Engineering (Reuse and Component Support).

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2002		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604740F Integrated Command & Control Applications				PROJECT 2523		
COST (\$ in Thousands)		FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
2523	Product Lines	213	224	226	244	263	266	272	Continuing	TBD
<p>(U) <u>A. Mission Description</u></p> <p>The software architecture, developed by the Product Lines Project, forms a vital component of the Integrated Command and Control Applications (IC2A) program by providing pre-defined reference architecture as a foundation for a DoD enterprise C2 capability. Using rapid prototyping techniques, a contractor can quickly tailor a reference architecture-based C2 component to the warfighter's needs and deliver an integrated, combat-ready system. All product lines and components are based on Defense Information Infrastructure Common Operating Environment (DII COE) principles to ensure joint compliance and interoperability; make maximum use of open system architectures, industry standards, Commercial off-the-shelf (COTS) products, and government furnished equipment; and incorporate multilevel security (MLS) features. This effort ensures that components and systems are developed with a view of operating within a C2 enterprise instead of stovepipe functionality. Contractors develop and maintain a common integrated infrastructure in a collaborative, synergistic environment using validated, mature software engineering processes to help ensure the quality of the designs and components. Reference architecture based designs and tested software components reduce development costs, risks and time for the user. New technologies, capabilities, and incremental developments are assessed and integrated into the architecture and components design as part of the product line development process to minimize any impact to the user.</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$213 Qualify components for product lines.</p> <p>(U) \$213 Total</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$224 Qualify components for product lines.</p> <p>(U) \$224 Total</p> <p>(U) <u>FY 2003 (\$ in Thousands)</u></p> <p>(U) \$226 Quality components for product lines.</p> <p>(U) \$226 Total</p> <p>(U) <u>B. Project Change Summary</u></p>										
Project 2523		Page 3 of 10 Pages				Exhibit R-2A (PE 0604740F)				

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DATE

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BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604740F Integrated Command & Control
Applications

PROJECT

2523

(U) C. Other Program Funding Summary (\$ in Thousands)

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	

(U) Not applicable

(U) D. Acquisition Strategy

All major contracts within PE 0604740F were awarded after full and open competition.

(U) E. Schedule Profile

	<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Product Line Component Qualification (Ongoing)	*	*	*	*	*	X	X	X				

* - Completed Event

X - Planned Event

IC2A is a support and management level of effort program. All activities are ongoing.

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002																																																																																																																																																																									
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Budget Acquisition History and Planning Information (\$ in Thousands)</u></p> <p>(U) <u>Performing Organizations:</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"><u>Contractor or Government</u></th> <th style="width: 10%;"><u>Method/Type or Funding</u></th> <th style="width: 10%;"><u>Award or Obligation</u></th> <th style="width: 10%;"><u>Performing Activity</u></th> <th style="width: 10%;"><u>Project Office</u></th> <th style="width: 10%;"><u>Total Prior to FY 2001</u></th> <th style="width: 10%;"><u>Budget FY 2001</u></th> <th style="width: 10%;"><u>Budget FY 2002</u></th> <th style="width: 10%;"><u>Budget FY 2003</u></th> <th style="width: 10%;"><u>Budget to Complete</u></th> <th style="width: 10%;"><u>Total Program</u></th> </tr> </thead> <tbody> <tr> <td colspan="11"><u>Product Development Organizations</u></td> </tr> <tr> <td>Hughes</td> <td>CPFF</td> <td>19 Dec 92</td> <td>N/A</td> <td>N/A</td> <td style="text-align: center;">453</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">453</td> </tr> <tr> <td>Raytheon</td> <td>CPFF</td> <td>19 Dec 92</td> <td>N/A</td> <td>N/A</td> <td style="text-align: center;">1,000</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1,000</td> </tr> <tr> <td>AGCS</td> <td>CPFF</td> <td>Dec 94</td> <td>N/A</td> <td>N/A</td> <td style="text-align: center;">50</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">50</td> </tr> <tr> <td>TRW</td> <td>CPFF</td> <td>12 Feb 97</td> <td>N/A</td> <td>N/A</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Unisys</td> <td>CPFF</td> <td>29 Sep 93</td> <td>N/A</td> <td>N/A</td> <td style="text-align: center;">30</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">30</td> </tr> <tr> <td>Contractor Support</td> <td>ITSP</td> <td>Various</td> <td>N/A</td> <td>N/A</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">Continuing</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td colspan="11"><u>Support and Management Organizations</u></td> </tr> <tr> <td>Program Office Support</td> <td>Various</td> <td>Various</td> <td>N/A</td> <td>N/A</td> <td style="text-align: center;">874</td> <td style="text-align: center;">213</td> <td style="text-align: center;">224</td> <td style="text-align: center;">226</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1,537</td> </tr> <tr> <td colspan="11"><u>Test and Evaluation Organizations</u></td> </tr> <tr> <td colspan="11">Not applicable.</td> </tr> </tbody> </table> <p>(U) <u>Government Furnished Property:</u></p> <table style="width: 100%; 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Project 2523					Page 5 of 10 Pages			Exhibit R-3 (PE 0604740F)																																																																																																																																																																								

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002		
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT	
05 - Engineering and Manufacturing Development				0604740F Integrated Command & Control Applications				2523	
(U) <u>Government Furnished Property Continued:</u>									
	<u>Contract</u>								
	<u>Method/Type</u>	<u>Award or</u>							
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>									
N/A									
<u>Support and Management Property</u>									
N/A									
<u>Test and Evaluation Property</u>									
N/A									
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>				<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				1,533	0	0	0	TBD	TBD
Subtotal Support and Management				874	213	224	226	0	1,537
Subtotal Test and Evaluation									
Total Project				2,407	213	224	226	TBD	TBD

Project 2523

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BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604740F Integrated Command & Control
Applications

PROJECT

2524

COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
2524 Reuse and Component Support	7,451	5,559	0	0	0	0	0	0	13,010

(U) **A. Mission Description**

The Reuse and Component Support project identifies, tests, and provides a set of common integrated infrastructure products for use by Air Force and Department of Defense program offices. This requires industry involvement for technology development and knowledge of direct and indirect impact to DoD missions in order to provide a skillful technical transition to fully state-of-the-art enterprise C2-based warfighting capability. Reuse and component architecture builds on the AF technical architecture and provides those pre-defined product line architectures with tested, reusable software components from mature programs. A software reuse strategy for DoD was developed as part of this effort. Efforts are continuing with development of a Product Line Asset Center Software Reuse Repository to evaluate and analyze enterprise C2 system components based on primarily commercial off-the-shelf (COTS) products through the National Product Line Asset Center (NPLACE) cooperative agreement. NPLACE functions include the application of standards compliance testing to ensure greatest interoperability among C2 systems.

(U) **FY 2001 (\$ in Thousands)**

(U) \$4,648 ASSET
 (U) \$1,873 NPLACE
 (U) \$930 AF Product Line Engineering
 (U) \$7,451 Total

(U) **FY 2002 (\$ in Thousands)**

(U) \$2,581 ASSET
 (U) \$1,985 NPLACE
 (U) \$993 AF Product Line Engineering
 (U) \$5,559 Total

(U) **FY 2003 (\$ in Thousands)**

(U) \$0 No Activity
 (U) \$0 Total

Project 2524

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Exhibit R-2A (PE 0604740F)

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05 - Engineering and Manufacturing Development

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Applications

PROJECT

2524

(U) **B. Project Change Summary**

Congress added \$7.8 in FY2001 for Reuse and Component Support.

Congress added \$5.6 in FY2002 for ASSET, NPLACE, and AF Product Line Engineering (Reuse and Component Support).

(U) **C. Other Program Funding Summary (\$ in Thousands)**

<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	

(U) Not applicable

(U) **D. Acquisition Strategy**

Not applicable.

(U) **E. Schedule Profile**

<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>			
1	2	3	4	1	2	3	4	1	2	3	4

(U) Not applicable.

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604740F Integrated Command & Control Applications			PROJECT 2524		

(U) **A. Project Cost Breakdown (\$ in Thousands)**

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
(U) Enterprise-wide Asset Identification (ASSET)	4,648	2,581	0
(U) Product Line Suitability Testing (NPLACE)	1,873	1,985	0
(U) Product Line Engineering	930	993	0
(U) Total	7,451	5,559	0

Congress added \$7.8 million in FY2001 for Reuse and Component Support.

Congress added \$5.6 million in FY2002 for ASSET, NPLACE, and AF Product Line Engineering (Reuse and Component Support).

(U) **B. Budget Acquisition History and Planning Information (\$ in Thousands)**

(U) **Performing Organizations:**

<u>Contractor or Government Performing Activity</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 2001</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>										
West Virginia High Technology Center	FFP	18 Nov 96	N/A	N/A	0	1,730	1,826	0	0	3,556
Raytheon/Hughes/TRW	CPFF	20 Feb 97	N/A	N/A	0	0	0	0	0	0
SAIC	ITSP	Various	N/A	N/A		3,850	2,323	0		6,173
ProLogic	FFP	Various	N/A	N/A		855	913	0		1,768
Contractor Support	ITSP	Various	N/A	N/A	0	374	0	0	0	374
<u>Support and Management Organizations</u>										
Horizons Tech, Inc.						642	497	0	0	1,139
<u>Test and Evaluation Organizations</u>										
Not applicable.										

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<p>(U) <u>Government Furnished Property:</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Item</u> Description</th> <th style="text-align: left;"><u>Contract</u> Method/Type or Funding Vehicle</th> <th style="text-align: left;"><u>Award or</u> Obligation Date</th> <th style="text-align: left;"><u>Delivery</u> Date</th> <th style="text-align: right;"><u>Total Prior</u> to FY 2001</th> <th style="text-align: right;"><u>Budget</u> FY 2001</th> <th style="text-align: right;"><u>Budget</u> FY 2002</th> <th style="text-align: right;"><u>Budget</u> FY 2003</th> <th style="text-align: right;"><u>Budget to</u> Complete</th> <th style="text-align: right;"><u>Total</u> Program</th> </tr> </thead> <tbody> <tr> <td colspan="10"><u>Product Development Property</u></td> </tr> <tr> <td colspan="10">Not applicable.</td> </tr> <tr> <td colspan="10"><u>Support and Management Property</u></td> </tr> <tr> <td colspan="10">Not applicable.</td> </tr> <tr> <td colspan="10"><u>Test and Evaluation Property</u></td> </tr> <tr> <td colspan="10">Not applicable.</td> </tr> <tr> <td colspan="4"></td> <th style="text-align: right;"><u>Total Prior</u> to FY 2001</th> <th style="text-align: right;"><u>Budget</u> FY 2001</th> <th style="text-align: right;"><u>Budget</u> FY 2002</th> <th style="text-align: right;"><u>Budget</u> FY 2003</th> <th style="text-align: right;"><u>Budget to</u> Complete</th> <th style="text-align: right;"><u>Total</u> Program</th> </tr> <tr> <td colspan="4"><u>Subtotals</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4">Not applicable.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4">Subtotal Product Development</td> <td style="text-align: right;">0</td> <td style="text-align: right;">6,809</td> <td style="text-align: right;">5,062</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td style="text-align: right;">11,871</td> </tr> <tr> <td colspan="4">Subtotal Support and Management</td> <td></td> <td style="text-align: right;">642</td> <td style="text-align: right;">497</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td style="text-align: right;">1,139</td> </tr> <tr> <td colspan="4">Subtotal Test and Evaluation</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4">Total Project</td> <td style="text-align: right;">0</td> <td style="text-align: right;">7,451</td> <td style="text-align: right;">5,559</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td style="text-align: right;">13,010</td> </tr> </tbody> </table>							<u>Item</u> Description	<u>Contract</u> Method/Type or Funding Vehicle	<u>Award or</u> Obligation Date	<u>Delivery</u> Date	<u>Total Prior</u> to FY 2001	<u>Budget</u> FY 2001	<u>Budget</u> FY 2002	<u>Budget</u> FY 2003	<u>Budget to</u> Complete	<u>Total</u> Program	<u>Product Development Property</u>										Not applicable.										<u>Support and Management Property</u>										Not applicable.										<u>Test and Evaluation Property</u>										Not applicable.														<u>Total Prior</u> to FY 2001	<u>Budget</u> FY 2001	<u>Budget</u> FY 2002	<u>Budget</u> FY 2003	<u>Budget to</u> Complete	<u>Total</u> Program	<u>Subtotals</u>										Not applicable.										Subtotal Product Development				0	6,809	5,062	0	0	11,871	Subtotal Support and Management					642	497	0	0	1,139	Subtotal Test and Evaluation										Total Project				0	7,451	5,559	0	0	13,010
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